lte advanced lte or lte a is a mobile communication standard and a major enhancement of the long term evolution lte standard it was formally submitted as a candidate 4g to itu t in late 2009 as meeting the requirements of the imt advanced standard and was standardized by the 3rd generation partnership project 3gpp in march 2011 as find out how the next evolution of 4g mobile networks lte advanced is set to boost your network stability speed and coverage we explore what lte a has to offer and when we might see it lte advanced lte a is an emerging and as the name suggests a more advanced set of standards and technologies that will be able to deliver bigger and speedier wireless data payloads the lte advanced also known as 4g is an upgraded version of the lte long term evolution standard that provides improved network performance and speed it offers faster download and upload speeds lower latency and greater network capacity ushering in a new era of mobile communication this article is an review and summary of lte technology and an introduction to lte advanced the 4g cellular technology lte advanced is essentially the next level of lte in particular lte advanced is lte that fulfills the criteria to be considered 4g by the itu lte for umts evolution to lte advanced book abstract written by experts actively involved in the 3gpp standards and product development lte for umts second edition gives a complete and up to date overview of long term evolution lte in a systematic and clear manner implementing lte advanced has been less costly for lte carriers than switching from 3g to lte lte advanced pro 4 5g introduced in 2016 release 13 and 2017 release 14 lte a pro increased this book examines the features of lte advanced and lte advanced pro and how they integrate into existing lte networks professionals find in depth coverage of how the air interface is abstract this practical hands on new resource presents lte technologies from end to end including network planning and the optimization tradeoff process this book examines the features of lte advanced and lte advanced pro and how they integrate into existing lte networks what is lte advanced first the what lte advanced is as noted the latest evolution of the lte mobile communications standard and it s a game changer for consumers that like watching videos playing games downloading files and more written for students and professionals of wireless technologies the revised fourth edition of from gsm to lte advanced pro and 5g provides an in depth review and description of the most current mobile networks and broadband overview of carrier allocation and network architecture one of the most important critical feature in lte advanced is that we
use multiple carriers in downlink and possible in uplink as well it may sound simple to use multiple carriers but in reality with the introduction of multiple carrier all the possible carrier resource allocation in uplink and downlink has such a huge the revised and updated fourth edition of from gsm to lte advanced pro and 5g an introduction to mobile networks and mobile broadband offers an authoritative guide to the technical descriptions of the various wireless technologies currently in use the author a noted expert on the topic explains the rationale behind their differing index an introduction to lte explains the technology used by 3gpp long term evolution the book covers the whole of lte both the techniques used for radio communication between the base station and the mobile phone and the techniques used for signalling communication and data transport in the evolved packet core lte advanced is a 3gpp standard that describes technological advancements to the long term evolution lte a highly flexible radio interface that aims at bridging the gap between 3rd generation and 4th generation 4g standards described in imt advanced international mobile telecommunication lte advanced does meet most of the standards lte is the cellular technology that 4g networks are based on and lte advanced is an enhancement that improves the original lte technology lte as per 3gpp release 8 provides peak data rates of up to 300 gbps whereas lte advanced as per 3gpp release 10 enables peak data rates of up to 1 gbps lte advanced was defined to fulfill imt advanced requirements thus is seen as a 4g technology lte advanced pro was agreed by 3gpp in october 2015 as a marker for lte for rel 13 onwards the rel 13 freeze date is march 2016 the new name is used to mark a point where significant improvements with regards to lte advanced are made written by experts actively involved in the 3gpp standards and product development lte for umts second edition gives a complete and up to date overview of the release details including field 1 5 from lte to lte advanced 16 1 5 1 theitrequirementsfor4g 16 1 5 2 requirementsoflte advanced 16 1 5 3 4gcommunicationsystems 16 1 5 4 themeaningof4g 17 1 6 the3gppspecificationsforlte 17 references 19 2 system architecture evolution 21 2 1 high levelarchitectureoflte 21
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1.5 from lte to lte advanced 16 1.5.1 the requirements for 4g 16 1.5.2 requirements of lte advanced 16 1.5.3 4g communications systems 16 1.5.4 the meaning of 4g 17 1.6 the 3gpp specifications for lte 17 references 19 2 system architecture evolution 21 2.1 high level architecture of lte 21